

ABSTRACT OF THE DISCLOSURE

It is an object of this invention to provide an image sensing apparatus capable of forming a high-resolution image by increasing the number of final 5 output pixels. To achieve this object, a digital color camera has a plurality of image sensing units for receiving object images via different apertures. These image sensing units are so arranged that images of an object at a predetermined distance are received as they 10 are shifted a predetermined amount from each other in at least the vertical direction. Further, these image sensing units have filters having different spectral transmittance characteristics.